



MAJOR SOURCE OPERATING PERMIT

Permittee: Grede II, LLC

Facility Name: **Grede II, LLC - Columbiana**

Facility No.: 411-0031

Location: Columbiana, Alabama

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act, §\$22-28-1 to 22-28-23, <u>Ala. Code</u> (1997 Rplc. Vol. and 2006 Cum. Supp.) (the "AAPCA") and the Alabama Environmental Management Act, <u>Ala. Code</u>, §\$22-22A-1 to 22-22A-16 (1997 Rplc. Vol. and 2005 Cum. Supp.), and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

Pursuant to the Clean Air Act of 1990, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the Clean Air Act of 1990 are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.

Issuance Date: Draft Effective Date:

Expiration Date:

Alabama Department of Environmental Management

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Feder	ally E	nforceable Provisos	Regulations
1.	Trans		
	otherv	permit is not transferable, whether by operation of law or wise, either from one location to another, from one piece of ment to another, or from one person to another, except as led in Rule 335-3-1613(1) (a) 5.	Rule 335-3-1602(6)
2.	Renev	<u>wals</u>	
	month	oplication for permit renewal shall be submitted at least six (6) as, but not more than eighteen (18) months, before the date of ation of this permit.	Rule 335-3-1612(2)
	operate compl	ource for which this permit is issued shall lose its right to te upon the expiration of this permit unless a timely and ete renewal application has been submitted within the time raints listed in the previous paragraph.	
3.	Sever	ability Clause	
	section this percount or investor operate clause	rovisions of this permit are declared to be severable and if any n, paragraph, subparagraph, subdivision, clause, or phrase of ermit shall be adjudged to be invalid or unconstitutional by any of competent jurisdiction, the judgment shall not affect, impair, alidate the remainder of this permit, but shall be confined in its tion to the section, paragraph, subparagraph, subdivision, e, or phrase of this permit that shall be directly involved in the oversy in which such judgment shall have been rendered.	Rule 335-3-1605(e)
4.	Comp	<u>liance</u>	
	(a)	The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.	Rule 335-3-1605(f)
	(b)	The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.	Rule 335-3-1605(g)
5.	<u>Term</u> :	ination for Cause	
	This p	permit may be modified, revoked, reopened, and reissued, or	Rule 335-3-1605(h)

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	terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.	
6.	Property Rights	
	The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.	Rule 335-3-1605(i)
7.	Submission of Information	
	The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.	Rule 335-3-1605(j)
8.	Economic Incentives, Marketable Permits, and Emissions Trading	
	No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.	Rule 335-3-1605(k)
9.	Certification of Truth, Accuracy, and Completeness:	
	Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness except as provided in Rule 335-3-1604(9)(b). This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.	Rule 335-3-1607(a)
10.	Inspection and Entry	
	Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:	Rule 335-3-1607(b)

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	(a)	Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit;	
	(b)	Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit;	
	(c)	Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit;	
	(d)	Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.	
11.	Com	pliance Provisions	
	(a)	The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.	Rule 335-3-1607(c)
	(b)	The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.	
12.	Compliance Certification		
		apliance certification shall be submitted annually within 60 days a date of issuance of this permit.	Rule 335-3-1607(e)
	(a)	The compliance certification shall include the following:	
		(1) The identification of each term or condition of this permit that is the basis of the certification;	
		(2) The compliance status;	
		(3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-1605(c) (Monitoring and Recording Keeping Requirements);	
		(4) Whether compliance has been continuous or intermittent;	
		(5) Such other facts as the Department may require to	

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		determine the compliance status of the source;	<u> </u>
	(b)	The compliance certification shall be submitted to:	
		Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463 and to: Air and EPCRA Enforcement Branch	
		EPA Region IV 61 Forsyth Street, SW	
		Atlanta, GA 30303	
13.	Reop	ening for Cause	
		r any of the following circumstances, this permit will be ned prior to the expiration of the permit:	Rule 335-3-1613(5)
	(a)	Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.	
	(b)	Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.	
	(c)	The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.	
	(d)	The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.	
14.	Addit	tional Rules and Regulations	
		permit is issued on the basis of Rules and Regulations existing ne date of issuance. In the event additional Rules and	

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	Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.			amended
15.	<u>Equi</u>	men	t Maintenance or Breakdown	
	(a)	for a such tweat such which	the case of shutdown of air pollution control equipment ich operates pursuant to any permit issued by the Director) necessary scheduled maintenance, the intent to shut down the equipment shall be reported to the Director at least nty-four (24) hours prior to the planned shutdown, unless the shutdown is accompanied by the shutdown of the source che such equipment is intended to control. Such prior ce shall include, but is not limited to the following:	Rule 335-3-107(1),(2)
		(1)	Identification of the specific facility to be taken out of service as well as its location and permit number;	
		(2)	The expected length of time that the air pollution control equipment will be out of service;	
		(3)	The nature and quantity of emissions of air contaminants likely to occur during the shutdown period;	
		(4)	Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;	
		(5)	The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.	
	(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.		process in such a manner as to cause, or is expected to se, increased emissions of air contaminants which are we an applicable standard, the person responsible for such ipment shall notify the Director within 24 hours or the next king day and provide a statement giving all pertinent facts, uding the estimated duration of the breakdown. The ector shall be notified when the breakdown has been	

All air pollution control devices and capture systems for which this \$22-28-16(d), Code of

Operation of Capture and Control Devices

16.

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reac	permi mann Proce opera	it is is ler so dures ted as minan	Alabama 1975, as amended	
17.	<u>Obno</u>	<u>xious</u>	Odors	
	arisin inspe- upon	permit g fro ctors, a dete gemer ble.	Rule 335-3-108	
18.	Fugit	ive D	<u>ust</u>	
	(a)	from	autions shall be taken to prevent fugitive dust emanating plant roads, grounds, stockpiles, screens, dryers, bers, ductwork, etc.	Rule 335-3-402
	(b)	follov mini shall	t or haul roads and grounds will be maintained in the wing manner so that dust will not become airborne. A mum of one, or a combination, of the following methods be utilized to minimize airborne dust from plant or haul s and grounds:	
		(1)	By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic; or	
		(2)	By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;	
		(3)	By paving;	
		(4)	By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions; or	
		(5)	Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be	

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			approved by the Department prior to utilization.				
19.	<u>Addit</u>	ions a	and Revisions				
	•		eations to this source shall comply with the modification in Rules 335-3-1613 or 335-3-1614.	Rule 335-3-1613 and .14			
20.	Reco	rdkeep	oing Requirements				
	(a)		rds of required monitoring information of the source shall de the following:	Rule 335-3-1605(c) 2.			
		(1)	The date, place, and time of all sampling or measurements;				
		(2)	The date analyses were performed;				
		(3)	The company or entity that performed the analyses;				
		(4)	The analytical techniques or methods used;				
		(5)	The results of all analyses; and				
		(6)	The operating conditions that existed at the time of sampling or measurement.				
	(b)	suppoperson years report calibration	ntion of records of all required monitoring data and ort information of the source for a period of at least 5 from the date of the monitoring sample, measurement, or application. Support information includes all ration and maintenance records and all original striptore recordings for continuous monitoring instrumentation copies of all reports required by the permit.				
21.	Repo	rting l	Requirements				
	(a)	Reno	rts to the Department of any required manitoring shall be	Rule 335-3-16- 05(c) 3			

(a) Reports to the Department of any required monitoring shall be Rule 335-3-16-.05(c) 3. submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9).

Deviations from permit requirements shall be reported within (b)

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		48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.	
22.	<u>Emis</u>	sion Testing Requirements	
	samp facilit by Pa	point of emission which requires testing will be provided with ling ports, ladders, platforms, and other safety equipment to atte testing performed in accordance with procedures established art 60 of Title 40 of the Code of Federal Regulations, as the same be amended or revised.	Rule 335-3-105(3) and Rule 335-3-104(1)
	advar of co	Air Division must be notified in writing at least 10 days in ace of all emission tests to be conducted and submitted as proof ampliance with the Department's air pollution control rules and ations.	
		void problems concerning testing methods and procedures, the ving shall be included with the notification letter:	
	(a)	The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.	Rule 335-3-104
	(b)	A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning).	
	(c)	A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.	
	(d)	A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.	
	the A atten All te of the	test meeting may be held at the request of the source owner or ir Division. The necessity for such a meeting and the required dees will be determined on a case-by-case basis. st reports must be submitted to the Air Division within 30 days e actual completion of the test unless an extension of time is fically approved by the Air Division.	Rule 335-3-104
23.	Paym	ent of Emission Fees	

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		al emission fees shall be remitted each year according to the fee tule in ADEM Admin. Code R. 335-1-704.	Rule 335-1-704	
24.	<u>Other</u>	Reporting and Testing Requirements		
	analy requi	dission of other reports regarding monitoring records, fuel ses, operating rates, and equipment malfunctions may be red as authorized in the Department's air pollution control rules regulations. The Department may require emission testing at me.	Rule 335-3-104(1)	
25.	Title V	I Requirements (Refrigerants)		
	air co deple Apper equip requir	facility having appliances or refrigeration equipment, including conditioning equipment, which use Class I or Class II ozoneting substances as listed in 40 CFR Part 82, Subpart A, addices A and B, shall service, repair, and maintain such ment according to the work practices, personnel certification rements, and certified recycling and recovery equipment fied in 40 CFR Part 82, Subpart F.	40 CFR Part 82	
	Class maint	erson shall knowingly vent or otherwise release any Class I or II substance into the environment during the repair, servicing, tenance, or disposal of any device except as provided in 40 CFR 32, Subpart F.		
	record	responsible official shall comply with all reporting and dkeeping requirements of 40 CFR 82.166. Reports shall be itted to the US EPA and the Department as required.		
26.	Chemi	cal Accidental Prevention Provisions		
	proce	hemical listed in Table 1 of 40 CFR Part 68.130 is present in a ss in quantities greater than the threshold quantity listed in 1, then:	40 CFR Part 68	
	(a)	The owner or operator shall comply with the provisions in 40 CFR Part 68.		
	(b)	The owner or operator shall submit one of the following:		

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	(1)	A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 68.10(a) or,	
	(2)	A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.	
27.	Display of P	<u>'ermit</u>	
	site where	t shall be kept under file or on display at all times at the the facility for which the permit is issued is located and e readily available for inspection by any or all persons who at to see it.	Rule 335-3-1401(1)(d)
28.	Circumvent	<u>ion</u>	
	or any mea	shall cause or permit the installation or use of any device ans which, without resulting in reduction in the total air contaminant emitted, conceals or dilutes any emission minant which would otherwise violate the Division 3 rules tions.	Rule 335-3-110
29.	Visible Emis	<u>ssions</u>	
	any source one 6-minu period. At opacity of p determined	erwise specified in the Unit Specific provisos of this permit, of particulate emissions shall not discharge more than ate average opacity greater than 20% in any 60-minute no time shall any source discharge a 6-minute average particulate emissions greater than 40%. Opacity will be by 40 CFR Part 60, Appendix A, Method 9, unless pecified in the Unit Specific provisos of this permit.	Rule 335-3-401(1)
30.	Fuel-Burnin	g Equipment	
	no fuel-bur	erwise specified in the Unit Specific provisos of this permit, rning equipment may discharge particulate emissions in the emissions specified in Part 335-3-403.	Rule 335-3-403
	no fuel-bur	erwise specified in the Unit Specific provisos of this permit, ning equipment may discharge sulfur dioxide emissions in the emissions specified in Part 335-3-501.	Rule 335-3-501
	CACCSS OF U	ic chilosions specifica in i art 300-3-301.	

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31.	Process Industries – General	
	Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-404.	Rule 335-3-404
32.	Averaging Time for Emission Limits	
	Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.	Rule 335-3-105
33.	Compliance Assurance Monitoring (CAM)	
	Conditions (a) through (d) that follow are general conditions applicable to emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the unit specific provisos and the attached CAM appendices.	
	(a) Operation of Approved Monitoring	40 CFR 64.7
	(1) Commencement of operation. The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).	
	(2) Proper maintenance. At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.	
	(3) Continued operation. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation	

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of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

- (4) Response to excursions or exceedances. (a) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable. (b) Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.
- (5) Documentation of need for improved monitoring. After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the Department and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or

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the monitoring of additional parameters.	
(b) Quality Improvement Plan (QIP) Requirements	40 CFR 64.8
(1) Based on the results of a determination made under Section 33(a)(4)(b) above, the Administrator or the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with 40 CFR §64.6(c)(3), the permit may specify an appropriate threshold, such as an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, for requiring the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.	
(2) Elements of a QIP:	
A. The owner or operator shall maintain a written QIP, if required, and have it available for inspection.	
B. The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:	
(i) Improved preventive maintenance practices.	
(ii) Process operation changes.	
(iii)Appropriate improvements to control methods.	
(iv)Other steps appropriate to correct control performance.	
(v) More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above).	
(3) If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was	

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	determined.	
(4)	Following implementation of a QIP, upon any subsequent determination pursuant to Section 33(a)(4)(b) above, the Department may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:	
	A. Failed to address the cause of the control device performance problems; or	
	B. Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.	
(5)	Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.	
(c) Repo	orting and Recordkeeping Requirements	40 CFR 64.9
(1)	General reporting requirements	
	A. On and after the date specified in Section 33(a)(1) above by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with ADEM Admin. Code R. 335-3-1605(c)3.	
	B. A report for monitoring under this part shall include, at a minimum, the information required under ADEM Admin. Code R. 335-3-1605(c)3. and the following information, as applicable:	
	 (i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken; 	
	(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and	

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- (iii) A description of the actions taken to implement a QIP during the reporting period as specified in Section 33(b) above. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
- (2) General recordkeeping requirements.
 - A. The owner or operator shall comply with the recordkeeping requirements specified in ADEM Admin. Code R. 335-3-16-.05(c)2. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to Section 33(b) above and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).
 - B. Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.

(d) Savings Provisions

40 CFR 64.10

- (1) Nothing in this part shall:
 - A. Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title

Federally Enforceable Provisos	Regulations
V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part.	
B. Restrict or abrogate the authority of the Department to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but no limited to sections 114(a)(1) and 504(b), or state law, as applicable.	
C. Restrict or abrogate the authority of the Department to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.	

Summary Page for Four Induction Furnaces and Ductile Treatment with Baghouse

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
001	Induction Furnaces No.1 and No.2	PM	$3.59(P)^{0.62}$	335-3-404
	(4.67 TPH) w/ Ductile Treatment			
001	Induction Furnaces No.1 and No.2	PM	3.93 lb/hr *	Anti-PSD
	(4.67 TPH) w/ Ductile Treatment			
001	Induction Furnaces No.1 and No.2	Opacity	(see general proviso	335-3-404
	(4.67 TPH) w/ Ductile Treatment		29)	
001	Induction Furnace No.3 (16.17 TPH)	PM	3.59(P) ^{0.62}	335-3-404
	w/ Ductile Treatment			
001	Induction Furnace No.3 (16.17 TPH)	PM	3.93 lb/hr *	Anti-PSD
	w/ Ductile Treatment			
001	Induction Furnace No.3 (16.17 TPH)	Opacity	(see general proviso	335-3-404
	w/ Ductile Treatment		29)	
009	Induction Furnace No.4 (16.0 TPH)	PM	$3.59(P)^{0.62}$	335-3-404
	w/ Ductile Treatment			
009	Induction Furnace No.4 (16.0 TPH)	PM	3.93 lb/hr *	Anti-PSD
	w/ Ductile Treatment			
009	Induction Furnace No.4 (16.0 TPH)	Opacity	(see general proviso	335-3-404
	w/ Ductile Treatment		29)	

(*)Note: Two Induction Furnaces (#1 & #2)(4.67 TPH) w/ Ductile Treatment, Induction Furnace(#3)(16.17 TPH) w/ Ductile Treatment, Induction Furnace(#4) (16.0 TPH) w/ Ductile Treatment, & Scrap Preheater share a combined limit of 3.93 lb/hr out of the baghouse stacks.

Provisos for Four Induction Furnaces and Ductile Treatment with Baghouse

Fe	derally Enforceable Provisos	Regulations
Aı	pplicability	
1.	These sources subject to the applicable requirements of ADEM Admin. Code R. 335-3-1603 "Major Source Operating Permits."	Rule 335-3-1603
2.	The Induction Furnaces No.1 and No.2 (4.67 TPH) with Ductile Treatment, Induction Furnace No.3 (16.17 TPH) with Ductile Treatment, Induction Furnace No.4 (16.0 TPH) with Ductile Treatment, and Scrap Preheater share an enforceable limit in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-1404, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-1404 (Anti-PSD)
3.	The facility is subject to the applicable requirements of 40 CFR Part 63 Subpart A, "General Provisions", as specified in Table 1 of 40 CFR Part 63 Subpart EEEEE.	40 CFR Part 63 Subpart A
4.	These sources are subject and must comply with the applicable requirements of 40 CFR Part 63 Subpart EEEEE, "National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries".	40 CFR Part 63 Subpart EEEEE
Eı	nission Standards	
1.	Particulate emissions from the Induction Furnaces No.1 and	Rule 335-3-404
	No.2 (4.67 TPH) with Ductile Treatment, Induction Furnace No.3 (16.17 TPH) with Ductile Treatment, Induction Furnace	Rule 335-3-1404
	No.4 (16.0 TPH) with Ductile Treatment, and Scrap Preheater shall not exceed the lesser of the Anti-PSD combined limit of 3.93 lb/hr out of the baghouse stack or the allowable as set by Rule 335-3-404.	(Anti-PSD)
2.	The facility shall not melt more than 61,875 tons of iron in any consecutive rolling twelve-month period.	Rule 335-3-1404
3	Induction Furnace No.4 (16.0 TPH) with Ductile Treatment shall	(Anti-PSD)
Э.	not melt scrap when the 16.17 TPH Induction Furnace No.3 is	Rule 335-3-1404
	melting.	(Anti-PSD)
4.	Particulate matter emissions from each electric induction furnace shall not exceed 0.005 gr/dscf or, alternatively, metal hazardous air pollutants emissions shall not exceed 0.0004 gr/dscf.	40 CFR §63.7690 (a)(1) Subpart EEEEE
5.	The facility shall comply with the scrap certification or scrap selection and inspection program specified in 40 CFR §63.7700.	40 CFR §63.7700 Subpart EEEEE

Federally Enforceable Provisos	Regulations
6. Each building or structure housing any emissions source at an iron and steel foundry shall not discharge fugitive emissions with opacity greater than 20 percent (6-minute average), except one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR \$63.7690 (a)(7) Subpart EEEEE
7. Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate matter emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate matter emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	Rule 335-3-401
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR (7-1-99 Edition) Part 60, Appendix A shall be used in the determination of particulate emissions from the stack.	Rule 335-3-104
2. Method 9 of 40 CFR (7-1-99 Edition) Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-104
3. The facility must be in compliance with the emissions limitations, work practice standards, and operation and maintenance requirements in this subpart at all times, except during periods of startup, shutdown, or malfunction.	40 CFR §63.7720(a) Subpart EEEEE
4. The facility must comply with the applicable testing requirements specified in §63.7731, and §63.7732.(1.) These units must comply with the performance tests requirements as set forth in 40 CFR 63.7731 (a) & (b) of	40 CFR §63.7731, §63.7732 Subpart EEEEE
 Subsequent performance test must be conducted to demonstrate compliance with applicable PM, total metal HAP, VOHAP, and TEA emissions limitations in §63.7690 for your Iron and Steel Foundry no less frequently than every 5 years. This requirement for performance test does not apply to an emission source for which a continuous emissions monitoring systems (CEMS) is used to monstrate compliance. (b) You must conduct Opacity limit performance compliance testing in §63.7690 (a)(7) for your Iron and Steel Foundry no less frequently than once every 6 months. 	

Federally Enforceable Provisos	Regulations
Emission Monitoring	
1. The facility shall perform a visual check, once per day, of the baghouse stack associated with this unit. This check shall be performed by a person familiar with Method 9. It instantaneous visible emissions in excess of 10% opacity are noted, and are not corrected within a period of 1 hour, then a Method 9 must be performed within 4 hours of the observations. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	
2. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed.	
(a) Once per week check hopper, fan and cleaning cycle for proper operation.	
(b) Once per week a visual check of all hoods and ductwork.	
3. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed.	
(a) Once per year inspect baghouse structure, access doors door seals, and bags.	,
(b) Once per year perform an internal inspection of the baghouse hoppers.	
4. Each capture system associated with these units must comply with the operation and maintenance requirements specified in 63.7710.	40 CFR §63.7710 Subpart EEEEE
5. The facility must comply with the monitoring requirements specified in 40 CFR §63.7740, §63.7741, and §63.7742 as applicable.	40 CFR §63.7740, §63.7741, §63.7742 Subpart EEEEE
Recordkeeping and Reporting Requirements	
1. The facility shall maintain a record of all inspections, to include visible observations and Method 9's performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken. Each record shall be maintained for a period of 5 years.	

Fe	ederally Enforceable Provisos	Regulations
2.	If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.	Rule 335-3-1605
3.	Records of monthly and 12-month rolling total iron production shall be kept in a form suitable for inspection for a period of at least five (5) years following the production of the iron.	Rule 335-3-1404
4.	The facility must comply with the reports and records requirements specified in §63.7751(a-d), §63.7752(a) & (c), and §63.7753 (a-c) as applicable.	40 CFR §63.7751, §63.7752, §63.7753 Subpart EEEEE

Summary Page for NG-Fired Scrap Preheater with Baghouse

Permitted

Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
001	NG-Fired Scrap Preheater	PM	$3.59(P)^{0.62}$	335-3-404
001	NG-Fired Scrap Preheater	PM	3.93 lb/hr *	Anti-PSD
001	NG-Fired Scrap Preheater	Opacity	(see general proviso	335-3-404
	_		29)	

Note: Two Induction Furnaces(#1 & #2)(4.67 TPH) w/ Ductile Treatment, Induction Furnace(#3)(16.17 TPH) w/ Ductile Treatment, Induction Furnace (#4)(16.0 TPH), & Scrap Preheater share a combined particulate limit of 3.93 lb/hr out of the baghouse stacks.

Provisos for NG-Fired Scrap Preheater with Baghouse

Fe	derally Enforceable Provisos	Regulations
Aı	pplicability	
1.	This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-1603 "Major Source Operating Permits."	Rule 335-3-1603
2.	The Two Induction Furnaces (4.67 TPH) with Ductile Treatment, Induction Furnace (16.17 TPH) with Ductile Treatment, Induction Furnace (16.0 TPH) with Ductile Treatment, and Scrap Preheater share an enforceable limit in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-1404, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-1404 (Anti-PSD)
3.	The facility is subject to the applicable requirements of 40 CFR Part 63 Subpart A, "General Provisions", as specified in Table 1 of 40 CFR Part 63 Subpart EEEEE.	40 CFR Part 63 Subpart A
4.	This source is subject to and must comply with the applicable	40 CFR Part 63
	requirements of 40 CFR Part 63 Subpart EEEEE, "National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries".	Subpart EEEEE
Eı	mission Standards	
1.	articulate emissions from the Two Induction Furnaces (4.67	Rule 335-3-404
	TPH) with Ductile Treatment, Induction Furnace (16.17 TPH) with Ductile Treatment, Induction Furnace (16.0 TPH) with	Rule 335-3-1404
	Ductile Treatment, and Scrap Preheater shall not exceed the lesser of the Anti-PSD combined particulate limit of 3.93 lb/hr out of the baghouse stack or the allowable as set by Rule 335-3-404.	(Anti-PSD)
2.	Particulate matter emissions from each electric induction furnace shall not exceed 0.005 gr/dscf or, alternatively, metal hazardous air pollutants emissions shall not exceed 0.0004 gr/dscf.	40 CFR §63.7690 (a)(1) Subpart EEEEE
3.	The facility must comply with the scrap certification or scrap selection and inspection program specified in 40 CFR §63.7700.	40 CFR §63.7700 Subpart EEEEE
4.	For each scrap preheater, the facility must install, operate, and maintain the preheater when the flame directly contacts the scrap charged; or, charge material that is subject to and in compliance with the scrap certification program or meet the VOHAP limit specified in §63.7690 (a)(9).	40 CFR §63.7700 (e) Subpart EEEEE

Fe	ederally Enforceable Provisos	Regulations
5.	Each building or structure housing any emissions source at an iron and steel foundry shall not discharge fugitive emissions with opacity greater than 20 percent (6-minute average), except one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR §63.7690 (a)(7) Subpart EEEEE
6.	Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate matter emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate matter emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	Rule 335-3-401
Co	ompliance and Performance Test Methods and Procedures	
1.	Method 5 of 40 CFR (7-1-99 Edition) Part 60, Appendix A shall be used in the determination of particulate emissions from the stack.	Rule 335-3-104
2.	Method 9 of 40 CFR (7-1-99 Edition) Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-104
3.	The facility must comply with the general compliance requirements specified in §63.7720.	40 CFR §63.7720 Subpart EEEEE
4.	The facility must comply with the applicable testing requirements specified in §63.7731 (a) & (b), and §63.7732(a-h) as applicable.	40 CFR §63.7731, §63.7732 Subpart EEEEE
Er	mission Monitoring	
1.	The facility shall perform a visual check, once per day, of the baghouse stack associated with this unit. This check shall be performed by a person familiar with Method 9. If visible emissions in excess of 10% opacity are noted, and are not corrected within a period of 1 hour, then a Method 9 must be performed within 4 hours of the observations. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-1605 (c)
2.	The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed.	Rule 335-3-1605 (c)
	(a) Once per week check hopper, fan and cleaning cycle for proper operation.	
	(b) Once per week a visual check of all hoods and ductwork.	

Federally Enforceable Provisos	Regulations
3. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed.	Rule 335-3-1605 (c)
(a) Once per year inspect baghouse structure, access doors, door seals, and bags.	
(b) Once per year perform an internal inspection of the baghouse hoppers.	
4. Each capture system associated with these units must comply with the operation and maintenance requirements specified in 63.7710.	40 CFR §63.7710 Subpart EEEEE
5. The facility must comply with the monitoring requirements specified in 40 CFR §63.7740, §63.7741, and §63.7742 as applicable.	40 CFR §63.7740, §63.7741, §63.7742 Subpart EEEEE
Recordkeeping and Reporting Requirements	
1. The facility shall maintain a record of all inspections, to include visible observations and Method 9's performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken. Each record shall be maintained for a period of 5 years.	Rule 335-3-1605
2. If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.	Rule 335-3-1605
3. The facility must comply with the applicable reports and records requirements specified in §63.7751(a-d), §63.7752(a) &(c), and §63.7753(a-c) as applicable.	40 CFR §63.7751, §63.7752, §63.7753 Subpart EEEEE

Summary Page for Molding Line A with Baghouse

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
002	Lost Foam Casting Unit (A)	PM	$3.59(P)^{0.62}$	335-3-404
002	Lost Foam Casting Unit (A)	PM	1.84 lb/hr *	Anti-PSD
002	Lost Foam Casting Unit (A)	Opacity	(see general proviso 29)	335-3-404
002	Lost Foam Casting Unit (A)	SO_2	N/A	N/A
002	Lost Foam Casting Unit (A)	NOx	N/A	N/A
002	Lost Foam Casting Unit (A)	CO	N/A	N/A
002	Lost Foam Casting Unit (A)	VOC	N/A	N/A
002	Lost Foam Casting Unit (A)	Styrene	N/A	N/A
002	Lost Foam Casting Unit (A)	Benzene	N/A	N/A
002	Lost Foam Casting Unit (A)	Toluene	N/A	N/A
002	Lost Foam Shakeout (A)	PM	$3.59(P)^{0.62}$	335-3-404
002	Lost Foam Shakeout (A)	PM	1.84 lb/hr *	Anti-PSD
002	Lost Foam Shakeout (A)	Opacity	(see general proviso 29)	335-3-404
002	Sand System (A)	PM	$3.59(P)^{0.62}$	335-3-404
002	Sand System (A)	PM	1.84 lb/hr *	Anti-PSD
002	Sand System (A)	Opacity	(see general proviso 29)	335-3-404

Note: The Lost Foam Casting Unit, Lost Foam Shakeout, & Sand System share a combined particulate limit of 1.84 lb/hr out of the baghouse stack.

Provisos for Molding Line A with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-1603 "Major Source Operating Permits."	
2. The Molding Line A Lost Foam Casting Unit, Lost Foam Shakeout, & Sand System share an enforceable limit in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-1404, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	(Anti-PSD)
3. For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, "Compliance Assurance Monitoring", to include General Proviso # 33.	40 CFR Part 64
4. The facility is subject to the applicable requirements of 40 CFR Part 63 Subpart A, "General Provisions", as specified in Table 1 of 40 CFR Part 63 Subpart EEEEE.	40 CFR Part 63 Subpart A
5. These sources are subject to and must comply with the applicable requirements of 40 CFR Part 63 Subpart EEEEE, "National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries".	40 CFR Part 63 Subpart EEEEE
Emission Standards	
1. Particulate emissions from the Molding Line A Lost Foam Casting Unit, Lost Foam Shakeout, & Sand System shall not exceed the lesser of the Anti-PSD combined particulate limit of 1.84 lb/hr out of the baghouse stack or the allowable as set by Rule 335-3-404.	Rule 335-3-14- 04(8)
2. Each building or structure housing any emissions source at an iron and steel foundry shall not discharge fugitive emissions with opacity greater than 20 percent (6-minute average), except one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR §63.7690 (a)(7) Subpart EEEEE
3. Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate matter emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate matter emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	

Federally Enforceable Provisos	Regulations
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR (7-1-99 Edition) Part 60, Appendix A shall be used in the determination of particulate emissions from the stack.	Rule 335-3-104
2. Method 9 of 40 CFR (7-1-99 Edition) Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-104
Emission Monitoring	
1. Reference the Appendix for the monitoring requirements for 40 CFR Part 64, "Compliance Assurance Monitoring".	40 CFR Part 64
2. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed.	Rule 335-3-1605
(a) Once per week check hopper, fan and cleaning cycle for proper operation.	
(b) Once per week a visual check of all hoods and ductwork.	
3. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed.	Rule 335-3-1605
(a) Once per year inspect baghouse structure, access doors, door seals, and bags.	
(b) Once per year perform an internal inspection of the baghouse hoppers.	
Recordkeeping and Reporting Requirements	
1. The facility shall maintain a record of all inspections, to include visible observations and Method 9's performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken. Each record shall be maintained for a period of 5 years.	40 CFR 64
2. If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.	Rule 335-3-1605

Summary Page for Molding Line B with Baghouse

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
003	Lost Foam Casting Unit (B)	PM	$3.59(P)^{0.62}$	335-3-404
003	Lost Foam Casting Unit (B)	PM	2.73 lb/hr *	Anti-PSD
003	Lost Foam Casting Unit (B)	Opacity	(see general proviso 29)	335-3-404
003	Lost Foam Casting Unit (B)	SO_2	N/A	N/A
003	Lost Foam Casting Unit (B)	NOx	N/A	N/A
003	Lost Foam Casting Unit (B)	CO	N/A	N/A
003	Lost Foam Casting Unit (B)	VOC	N/A	N/A
003	Lost Foam Casting Unit (B)	Styrene	N/A	N/A
003	Lost Foam Casting Unit (B)	Toulene	N/A	N/A
003	Lost Foam Casting Unit (B)	Benzene	N/A	N/A
003	Lost Foam Shakeout (B)	PM	3.59(P) ^{0.62}	335-3-404
003	Lost Foam Shakeout (B)	PM	2.73 lb/hr *	Anti-PSD
003	Lost Foam Shakeout (B)	Opacity	(see general proviso 29)	335-3-404
003	Sand System (B)	PM	3.59(P) ^{0.62}	335-3-404
003	Sand System (B)	PM	2.73 lb/hr *	Anti-PSD
003	Sand System (B)	Opacity	(see general proviso 29)	335-3-404

Note: The Lost Foam Casting Unit, Lost Foam Shakeout, Sand System, and Wheelabrator Shotblast share a combined particulate limit of 2.73 lb/hr out of the baghouse stack.

Provisos for Molding Line B with Baghouse

Fe	derally Enforceable Provisos	Regulations
Aţ	pplicability	
1.	This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-1603 "Major Source Operating Permits."	Rule 335-3-1603
2.	The Molding Line B Lost Foam Casting Unit, Lost Foam Shakeout, Sand System, and Wheelabrator Shotblast share an enforceable limit in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-1404, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-1404 (Anti-PSD)
3.	For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, "Compliance Assurance Monitoring", to include General Proviso # 33.	40 CFR Part 64
4.	The facility is subject to the applicable requirements of 40 CFR Part 63 Subpart A, "General Provisions", as specified in Table 1 of 40 CFR Part 63 Subpart EEEEE.	40 CFR Part 63 Subpart A
5.	These sources are subject to and must comply with the applicable requirements of 40 CFR Part 63 Subpart EEEEE, "National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries".	40 CFR Part 63 Subpart EEEEE
Er	nission Standards	
1.	Particulate emissions from the Molding Line B Lost Foam	Rule 335-3-404
	Casting Unit, Lost Foam Shakeout, Sand System, and Wheelabrator Shotblast shall not exceed the lesser of the Anti-PSD combined particulate limit of 2.73 lb/hr out of the baghouse stack or the allowable as set by Rule 335-3-404.	Rule 335-3-1404
		(Anti-PSD)
2.	Each building or structure housing any emissions source at an iron and steel foundry shall not discharge fugitive emissions with opacity greater than 20 percent (6-minute average), except one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR §63.7690 (a)(7) Subpart EEEEE
	Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate matter emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate matter emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	Rule 335-3-4.01
Co	ompliance and Performance Test Methods and Procedures	

Federally Enforceable Provisos	Regulations
1. Method 5 of 40 CFR (7-1-99 Edition) Part 60, Appendix A shall be used in the determination of particulate emissions from the stack.	Rule335-3-104
2. Method 9 of 40 CFR (7-1-99 Edition) Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-104
Emission Monitoring	
1. Reference the Appendix for the monitoring requirements for 40 CFR Part 64, "Compliance Assurance Monitoring".	40 CFR 64
2. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed.	Rule 335-3-1605 (c)
(a) Once per week check hopper, fan and cleaning cycle for proper operation.	
(b) Once per week a visual check of all hoods and ductwork.	
3. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed.	Rule 335-3-1605 (c)
(a) Once per year inspect baghouse structure, access doors, door seals, and bags.	
(b) Once per year perform an internal inspection of the baghouse hoppers.	
Recordkeeping and Reporting Requirements	
1. The facility shall maintain a record of all inspections, to include visible observations and Method 9's performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken. Each record shall be maintained for a period of 5 years.	Rule 335-3-1605 (c)
2. If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.	Rule 335-3-1605 (c)

Summary Page for Wheelabrator Shotblast with Baghouse

Permitted

Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
003	Wheelabrator Shotblast	PM	3.59(P) ^{0.62}	335-3-404
003	Wheelabrator Shotblast	PM	2.73 lb/hr *	Anti-PSD
003	Wheelabrator Shotblast	Opacity	(see general proviso	335-3-404
		_	29)	

Note: The Lost Foam Casting Unit, Lost Foam Shakeout, Sand System, and Wheelabrator Shotblast shares a combined particulate limit of 2.73 lb/hr out of the baghouse stack.

Provisos for Wheelabrator Shotblast with Baghouse

Fe	derally Enforceable Provisos	Regulations
Aŗ	pplicability	
1.	This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-1603 "Major Source Operating Permits."	Rule 335-3-1603
2.	Molding Line B (Lost Foam Casting Unit, Lost Foam Shakeout, Sand System, and Wheelabrator Shotblast) share an enforceable limit in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-1404, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-1404 (Anti-PSD)
3.	For particulate matter emissions, this source is subject to the applicable requirements of 40 CFR Part 64, "Compliance Assurance Monitoring", to include General Proviso # 33.	40 CFR Part 64
4.	The facility is subject to the applicable requirements of 40 CFR Part 63 Subpart A, "General Provisions", as specified in Table 1 of 40 CFR Part 63 Subpart EEEEE.	40 CFR Part 63 Subpart A
5.	These sources are subject to and must comply with the applicable requirements of 40 CFR Part 63 Subpart EEEEE, "National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries".	40 CFR Part 63 Subpart EEEEE
Er	nission Standards	
1.	Particulate emissions from Molding Line B (Lost Foam Casting	Rule 335-3-404
	Unit, Lost Foam Shakeout, Sand System, and Wheelabrator Shotblast) shall not exceed the lesser of the Anti-PSD combined	Rule 335-3-1404
	particulate limit of 2.73 lb/hr out of the baghouse stack or the allowable as set by Rule 335-3-404.	(Anti-PSD)
2.	Each building or structure housing any emissions source at an iron and steel foundry shall not discharge fugitive emissions with opacity greater than 20 percent (6-minute average), except one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR §63.7690 (a)(7) Subpart EEEEE
3.	Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate matter emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate matter emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	Rule 335-3-4.01

Federally Enforceable Provisos	Regulations	
Compliance and Performance Test Methods and Procedures		
1. Method 5 of 40 CFR (7-1-99 Edition) Part 60, Appendix A shall be used in the determination of particulate emissions from the stack.	Rule335-3-104	
2. Method 9 of 40 CFR (7-1-99 Edition) Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-104	
Emission Monitoring		
1. Reference the Appendix for the monitoring requirements for 40 CFR Part 64, "Compliance Assurance Monitoring".	40 CFR 64	
2. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed.	Rule 335-3-1605 (c)	
(a) Once per week check hopper, fan and cleaning cycle for proper operation.		
(b) Once per week a visual check of all hoods and ductwork.		
3. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed.	Rule 335-3-1605 (c)	
(a) Once per year inspect baghouse structure, access doors, door seals, and bags.		
(b) Once per year perform an internal inspection of the baghouse hoppers.		
Recordkeeping and Reporting Requirements		
1. The facility shall maintain a record of all inspections, to include visible observations and Method 9's performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken. Each record shall be maintained for a period of 5 years.	Rule 335-3-1605 (c)	
2. If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.	Rule 335-3-1605 (c)	

Summary Page for Molding Line C with Baghouse

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
004	Lost Foam Casting Unit (C)	PM	3.59(P) ^{0.62}	335-3-404
004	Lost Foam Casting Unit (C)	PM	4.95 lb/hr *	Anti-PSD
004	Lost Foam Casting Unit (C)	Opacity	(see general proviso 29)	335-3-404
004	Lost Foam Casting Unit (C)	SO_2	N/A	N/A
004	Lost Foam Casting Unit (C)	NOx	N/A	N/A
004	Lost Foam Casting Unit (C)	СО	N/A	N/A
004	Lost Foam Casting Unit (C)	VOC	N/A	N/A
004	Lost Foam Casting Unit (C)	Styrene	N/A	N/A
004	Lost Foam Casting Unit (C)	Toluene	N/A	N/A
004	Lost Foam Casting Unit (C)	Benzene	N/A	N/A
004	Lost Foam Shakeout (C)	PM	3.59(P) ^{0.62}	335-3-404
004	Lost Foam Shakeout (C)	PM	4.59 lb/hr *	Anti-PSD
004	Lost Foam Shakeout (C)	Opacity	(see general proviso 29)	335-3-404
004	Sand System (C)	PM	3.59(P) ^{0.62}	335-3-404
004	Sand System (C)	PM	4.95 lb/hr *	Anti-PSD
004	Sand System (C)	Opacity	(see general proviso 29)	335-3-404
004	Pouring & Cooling (C)	PM	3.59(P) ^{0.62}	335-3-404
004	Pouring & Cooling (C)	PM	4.59 lb/hr *	Anti-PSD
004	Pouring & Cooling (C)	Opacity	(see general proviso 29)	335-3-404

Note: The Lost Foam Casting Unit, Lost Foam Shakeout, Sand System, and Pouring and Cooling shares a combined particulate limit of 4.95 lb/hr out of the baghouse stack.

Provisos for Molding Line C with Baghouse

Federally Enforceable Provisos	Regulations	
Applicability		
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-1603 "Major Source Operating Permits."	Rule 335-3-1603	
2. Molding Line C (Lost Foam Casting Unit, Lost Foam Shakeout, Sand System, and Pouring and Cooling) share an enforceable limit in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-1404, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-1404 (Anti-PSD)	
3. For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, "Compliance Assurance Monitoring", to include General Proviso # 33.	40 CFR Part 64	
4. The facility is subject to the applicable requirements of 40 CFR Part 63 Subpart A, "General Provisions", as specified in Table 1 of 40 CFR Part 63 Subpart EEEEE.	40 CFR Part 63 Subpart A	
5. The pouring stations are subject to and must comply with the applicable requirement of 40 CFR Part 63 Subpart EEEEE, "National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries".	40 CFR Part 63 Subpart EEEEE	
Emission Standards		
1. Particulate emissions from Molding Line C (Lost Foam Casting Unit, Lost Foam Shakeout, Sand System, and Pouring and Cooling) shall not exceed the lesser of the Anti-PSD combined particulate limit of 4.95 lb/hr out of the baghouse stack or the allowable as set by Rule 335-3-404.	Rule 335-3-404 Rule 335-3-1404 (Anti-PSD)	
2. Particulate matter emissions from each pouring station shall not exceed 0.010 gr/dscf or, alternatively, metal hazardous air pollutants emissions shall not exceed 0.0008 gr/dscf.	40 CFR §63.7690 (a)(5)(i & ii) Subpart EEEEE	
3. Each building or structure housing any emissions source at an iron and steel foundry shall not discharge fugitive emissions with opacity greater than 20 percent (6-minute average), except one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR §63.7690 (a)(7) Subpart EEEEE	

Federally Enforceable Provisos	Regulations
4. Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate matter emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate matter emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit	Rule 335-3-401
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR (7-1-99 Edition) Part 60, Appendix A shall be used in the determination of particulate emissions from the stack.	Rule 335-3-104
2. Method 9 of 40 CFR (7-1-99 Edition) Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-104
3. The facility must comply with the general compliance requirements specified in §63.7720 (a) & (c).	40 CFR §63.7720 Subpart EEEEE
4. The facility must comply with the applicable testing requirements specified in §63.7731(a) & (b), and §63.7732(a-h) as applicable.	40 CFR §63.7731, §63.7732 Subpart EEEEE
Emission Monitoring	
1. Reference the Appendix for the monitoring requirements for 40 CFR Part 64, "Compliance Assurance Monitoring".	40 CFR 64
2. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed.	Rule 335-3-1605 (c)
(a) Once per week check hopper, fan and cleaning cycle for proper operation.	
(b) Once per week a visual check of all hoods and ductwork.	
3. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed.	Rule 335-3-1605 (c)
(a) Once per year inspect baghouse structure, access doors, door seals, and bags.	
(b) Once per year perform an internal inspection of the baghouse hoppers.	

Federally E	aforceable Provisos	Regulations
Recordkeepi		
visible ob requireme problems	by shall maintain a record of all inspections, to include eservations and Method 9's performed to satisfy the ents of periodic monitoring. This shall include all observed and corrective actions taken. Each record naintained for a period of 5 years.	Rule 335-3-1605 (c)
Part 60, <i>I</i> using an	e emission observation is required using the 40 CFR, Appendix A, Method 9, the results will be documented ADEM visible emissions observation report and the d corrective action taken will be documented in a	Rule 335-3-1605 (c)
comply v	are system associated with the pouring stations must with the operation and maintenance requirements in 40 CFR §63.7710 as applicable.	40 CFR §63.7710 Subpart EEEEE

Summary Page for Grinding Stations with Baghouse

Permitted

Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission Point #	Description	Pollutant	Emission limit	Regulation
005	Grinding Stations	PM	3.59(P) ^{0.62}	335-3-404
005	Grinding Stations	PM	2.02 lb/hr	Anti-PSD
005	Grinding Stations	Opacity	(see general proviso 29)	335-3-404

Provisos for Grinding Stations with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-1603 "Major Source Operating Permits."	Rule 335-3-1603
2. The Grinding Stations have an enforceable limit in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-1404, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-1404 (Anti-PSD)
3. For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, "Compliance Assurance Monitoring", to include General Proviso # 33.	40 CFR Part 64
4. The facility is subject to the applicable requirements of 40 CFR Part 63 Subpart A, "General Provisions", as specified in Table 1 of 40 CFR Part 63 Subpart EEEEE.	40 CFR Part 63 Subpart A
5. These sources are subject to and must comply with the applicable requirements of 40 CFR Part 63 Subpart EEEEE, "National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries".	40 CFR Part 63 Subpart EEEEE
Emission Standards	
 Particulate emissions from the Grinding Stations shall not exceed the lesser of the Anti-PSD particulate emission limit of 2.02 lb/hr or the allowable as set by Rule 335-3-404. 	Rule 335-3-404 Rule 335-3-1404 (Anti-PSD)
2. Each building or structure housing any emissions source at an iron and steel foundry shall not discharge fugitive emissions with opacity greater than 20 percent (6-minute average), except one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR §63.7690 (a)(7) Subpart EEEEE
3. Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate matter emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate matter emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	Rule 335-3-4.01

Federally Enforceable Provisos	Regulations
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR (7-1-99 Edition) Part 60, Appendix A shall be used in the determination of particulate emissions from the stack.	Rule 335-3-104
2. Method 9 of 40 CFR (7-1-99 Edition) Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-104
Emission Monitoring	
1. Reference the Appendix for the monitoring requirements for 40 CFR Part 64, "Compliance Assurance Monitoring".	40 CFR 64
2. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed.	Rule 335-3-1605 (c)
(a) Once per week check hopper, fan and cleaning cycle for proper operation.	
(b) Once per week a visual check of all hoods and ductwork.	
3. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed.	Rule 335-3-1605 (c)
(a) Once per year inspect baghouse structure, access doors, door seals, and bags.	
(b) Once per year perform an internal inspection of the baghouse hoppers.	
Recordkeeping and Reporting Requirements	
1. The facility shall maintain a record of all inspections, to include visible observations and Method 9's performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken. Each record shall be maintained for a period of 5 years.	Rule 335-3-1605 (c)
2. If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.	Rule 335-3-1605 (c)

Summary Page for Goff Hanger Table Shotblast with Baghouse

Permitted

Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission Point #	Description	Pollutant	Emission limit	Regulation
002	Goff Hanger Table Shotblast	PM	3.59(P) ^{0.62}	335-3-404
002	Goff Hanger Table Shotblast	PM	0.50 lb/hr	Anti-PSD
002	Goff Hanger Table Shotblast	Opacity	(see general proviso	335-3-404
	-		29)	

Provisos for Goff Hanger Table Shotblast with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-1603 "Major Source Operating Permits."	Rule 335-3-1603
2. The Goff Hanger Table Shotblast has an enforceable limit in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-1404, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-1404 (Anti-PSD)
3. The facility is subject to the applicable requirements of 40 CFR Part 63 Subpart A, "General Provisions", as specified in Table 1 of 40 CFR Part 63 Subpart EEEEE.	40 CFR Part 63 Subpart A
4. These sources are subject to and must comply with the applicable requirements of 40 CFR Part 63 Subpart EEEEE, "National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries".	40 CFR Part 63 Subpart EEEEE
Emission Standards	
1. Particulate emissions from the Goff Hanger Table Shotblast	Rule 335-3-404
shall not exceed the lesser of the Anti-PSD particulate emission limit of 0.50 lb/hr out of the baghouse stack or the allowable as set by Rule 335-3-404	Rule 335-3-1404 (Anti-PSD)
2. Each building or structure housing any emissions source at an iron and steel foundry shall not discharge fugitive emissions with opacity greater than 20 percent (6-minute average), except one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR §63.7690 (a)(7) Subpart EEEEE
3. Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate matter emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate matter emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	Rule 335-3-401
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR (7-1-99 Edition) Part 60, Appendix A shall be used in the determination of particulate emissions from the stack.	Rule 335-3-104

Federally Enforceable Provisos	Regulations
2. Method 9 of 40 CFR (7-1-99 Edition) Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-104
Emission Monitoring	
1. The facility shall perform a visual check, once per day, of each baghouse stack associated with this unit. This check shall be performed by a person familiar with Method 9. If visible emissions in excess of 10% opacity are noted, and are not corrected within a period of 1 hour, then a Method 9 must be performed within 4 hours of the observations. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-1605 (c)
2. The facility shall monitor and record the pressure drop across each baghouse once per day.	Rule 335-3-1605 (c)
3. The facility shall perform a weekly inspection of each baghouse to verify proper operation. The following activities shall be performed.	Rule 335-3-1605 (c)
(a) Once per week check hopper, fan and cleaning cycle for proper operation.	
(b) Once per week a visual check of all hoods and ductwork.	
4. The facility shall perform an annual inspection of each baghouse to verify proper operation. The following activities shall be performed.	Rule 335-3-1605 (c)
(a) Once per year inspect baghouse structure, access doors, door seals and bags.	
(b) Once per year perform an internal inspection of the baghouse hoppers.	
Recordkeeping and Reporting Requirements	
1. The facility shall maintain a record of all inspections, to include visible observations and Method 9's performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken. Each record shall be maintained for a period of 5 years.	Rule 335-3-1605 (c)

Federally Enforceable Provisos	Regulations
2. If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.	Rule 335-3-1605 (c)

Summary Page for Continuous Shotblast with Baghouse

Permitted

Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr =

8760 Hrs/yr

Emission Point #	Description	Pollutant	Emission limit	Regulation
004	Continuous Shotblast	PM	3.59(P) ^{0.62}	335-3-404
004	Continuous Shotblast	PM	1.53 lb/hr	Anti-PSD
004	Continuous Shotblast	Opacity	(see general proviso	335-3-404
		_	29)	

Provisos for Continuous Shotblast with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-1603 "Major Source Operating Permits."	Rule 335-3-1603
2. The Continuous Shotblast has an enforceable limit in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-1404, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-1404 (Anti-PSD)
3. For particulate matter emissions, this unit is subject to the applicable requirements of 40 CFR Part 64, "Compliance Assurance Monitoring", to include General Proviso # 33.	40 CFR Part 64
4. The facility is subject to the applicable requirements of 40 CFR Part 63 Subpart A, "General Provisions", as specified in Table 1 of 40 CFR Part 63 Subpart EEEEE.	40 CFR Part 63 Subpart A
5. These sources are subject to and must comply with the applicable requirements of 40 CFR Part 63 Subpart EEEEE, "National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries".	40 CFR Part 63 Subpart EEEEE
Emission Standards	
1. Particulate emissions from the Continuous Shotblast shall not exceed the lesser of the Anti-PSD particulate emission limit of 1.53 lb/hr out of the baghouse stack or the allowable as set by Rule 335-3-404.	Rule 335-3-404 Rule 335-3-1404 (Anti-PSD)
2. Each building or structure housing any emissions source at an iron and steel foundry shall not discharge fugitive emissions with opacity greater than 20 percent (6-minute average), except one 6-minute average per hour that does not exceed 27 percent opacity.	Subpart EEEEE
3. Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate matter emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate matter emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	

Federally Enforceable Provisos	Regulations
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR (7-1-99 Edition) Part 60, Appendix A shall be used in the determination of particulate emissions from the stack.	Rule335-3-104
2. Method 9 of 40 CFR (7-1-99 Edition) Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-104
Emission Monitoring	
1. Reference the Appendix for the monitoring requirements for 40 CFR Part 64, "Compliance Assurance Monitoring".	40 CFR 64
2. The facility shall perform a weekly inspection of each baghouse to verify proper operation. The following activities shall be performed.	Rule 335-3-1605 (c)
(a) Once per week check hopper, fan and cleaning cycle for proper operation.	
(b) Once per week a visual check of all hoods and ductwork.	
3. The facility shall perform an annual inspection of each baghouse to verify proper operation. The following activities shall be performed.	Rule 335-3-1605 (c)
(a) Once per year inspect baghouse structure, access doors, door seals, and bags.	
(b) Once per year perform an internal inspection of the baghouse hoppers.	
Recordkeeping and Reporting Requirements	
1. The facility shall maintain a record of all inspections, to include visible observations and Method 9's performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken. Each record shall be maintained for a period of 5 years.	Rule 335-3-1605 (c)
2. If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.	Rule 335-3-1605 (c)

Summary Page for Painting Line

Permitted

Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission Point #	Description	Pollutant	Emission limit	Regulation
008	Painting Line	VOC	4.0 lb/gallon	NSR Avoidance
008	Painting Line	HAPs	N/A	N/A

Provisos for Painting Line

Federally Enforceable Provisos	Regulations	
Applicability		
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-1603 "Major Source Operating Permits."	Rule 335-3-1603	
2. The Painting Line has an enforceable limit in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-1405, "Air Permits Authorizing Construction in or Near Nonattainment Areas".	Rule 335-3-1405 (Anti-PSD)	
3. The facility is subject to the applicable requirements of 40 CFR Part 63 Subpart A, "General Provisions", as specified in Table 2 of 40 CFR Part 63 Subpart MMMM.	40 CFR Part 63 Subpart A	
4. The painting line is subject to and must comply with the applicable requirements of 40 CFR Part 63 Subpart MMMM, "National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products".	40 CFR Part 63 Subpart MMMM	
Emission Standards		
1. The total throughput of paint for this unit shall not exceed 16,174 gallons in any consecutive twelve (12) month period.	Rule 335-3-1405 (Anti-PSD)	
2. The VOC content of the paint used in this unit shall not exceed 4.0 lb/gallon.	Rule 335-3-1405 (Anti-PSD)	
3. The total throughput of thinner for this unit shall not exceed 9,582 gallons in any consecutive twelve (12) month period.	Rule 335-3-1405 (Anti-PSD)	
4. Organic hazardous air pollutant emissions from the paint line shall not exceed 0.31 kg (2.6 lb) per liter (gallon) coating solids used during each 12-month compliance period.	40 CFR §63.3890 (b) (1) Subpart MMMM	
Compliance and Performance Test Methods and Procedures		
1. Method 24 of 40 CFR (7-1-99 Edition) Part 60, Appendix A shall be used in the determination of the VOC content of the paint used in this unit.	Rule 335-3-1405 (Anti-PSD)	
2. The facility will comply with the emission rate without add-on control option described in §63.3891 (b) to demonstrate compliance with the emissions limitation specified in §63.3890 (b) (1).	40 CFR §63.3891 (b) Subpart MMMM	
3. The facility must comply with the compliance requirements of the emission rate without add-on control option specified in §63.3950, §63.3951, and §63.3952 as applicable.	40 CFR §63.3950, §63.3951, and §63.3952 Subpart MMMM	

Federally Enforceable Provisos	Regulations
Emission Monitoring	
1. This Source is subject to no additional requirements other than those listed in the General Permit Provisos.	N/A
Recordkeeping and Reporting Requirements	
1. Records showing the monthly and twelve (12) month rolling total paint and thinner usage and VOC content of the paint shall be kept at the facility in a form suitable for inspection for a period of at least five (5) years following the usage of the material.	Rule 335-3-1405 (Anti-PSD)
2. The facility must submit a semi-annual compliance report as specified in §63.3920.	40 CFR §63.3920 Subpart MMMM
3. The facility must keep a record of the coating operations on wh ich each compliance option was used and the time period.	40 CFR §63.3930 Subpart MMMM
4. The facility must keep the following records: the calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning material used each month using the equations specified in §63.3951; and if applicable, the calculation used to determine the mass of organic HAP in waste materials according the §63.3951 (e) (4); the calculation of the total volume of coating solids used each month; and the calculation of each 12-month organic HAP emission rate.	40 CFR §63.3930 Subpart MMMM
5. The facility must keep a record of the name and volume of each coating, thinner and/or other additive, and cleaning material used during each compliance period.	40 CFR §63.3930 (d) Subpart MMMM
6. The facility must keep a record of the mass fraction of organic HAP of each coating, thinner and/or other additive, and cleaning material used during each compliance period.	40 CFR §63.3930 (e) Subpart MMMM
7. The facility must keep a record of the volume fraction of coating solids of each coating used during each compliance period.	40 CFR §63.3930 (f) Subpart MMMM
8. The facility must keep a record of the density of each coating, thinner and/or other additives, and cleaning material used during each compliance period.	40 CFR §63.3930 (g) Subpart MMMM
9. If allowance in Equation 1 for organic HAP contained in waste material sent to or designated for shipment to a TSDF (treatment, storage, disposal facility) is used in Equation 1, the facility must keep a record of the following:	40 CFR §63.3930 (h) Subpart MMMM

Federally E	Regulations	
(a)	Name and address of each TSDF, a statement of which subpart(s) under 40 CFR 262, 264, 265, 266 applies to the facility, and date of each shipment.	
(b)	Identification of the coating operations producing waste materials included in each shipment and the month(s) the allowance was used for these materials.	
(c)	Methodologies used to determine the total amount of waste materials sent to or designated for shipment to a TSDF each month and the mass of organic HAP contained in these waste materials.	
10. The faci	lity must keep a record of the date, time, and duration leviation.	40 CFR §63.3930 (j) Subpart MMMM

Summary Page for Pouring and Cooling (Lines A & B)

Permitted

Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission Point #	Description	Pollutant	Emission limit	Regulation
090	Pouring and Cooling (Lines A & B)	PM	3.59(P) ^{0.62}	335-3-404
090	Pouring and Cooling (Lines A & B)	NOx	N/A	N/A
090	Pouring and Cooling (Lines A & B)	CO	N/A	N/A
090	Pouring and Cooling (Lines A & B)	VOC	N/A	N/A
090	Pouring and Cooling (Lines A & B)	HAPs	N/A	N/A

Provisos for Pouring and Cooling (Lines A & B)

Federally Enforceable Provisos	Regulations
Applicability	
1. These units are subject to and must comply with the applicable requirements of 40 CFR Part 63 Subpart EEEEE, "National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries".	40 CFR Part 63 Subpart EEEEE
2. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-1603 "Major Source Operating Permits."	Rule 335-3-1603
Emission Standards	
1. Each building or structure housing any emissions source at an iron and steel foundry shall not discharge fugitive emissions with opacity greater than 20 percent (6-minute average), except one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR §63.7690 (a)(7) Subpart EEEEE
Compliance and Performance Test Methods and Procedures	
1. The facility must comply with the applicable testing requirements specified in §63.7731(b), and §63.7732(d)(1) & (2).	40 CFR §63.7731, §63.7732 Subpart EEEEE
Emission Monitoring	
1. The facility must comply with the applicable monitoring requirements specified in §63.7743(a)(7)	40 CFR §63.7743 (a)(7) Subpart EEEEE
Recordkeeping and Reporting Requirements	
1. The facility must comply with the applicable record keeping requirements specified in §63.7752(c) and §63.7753 (a-c) as applicable.	40 CFR §63.7752(c) & §63.7753(a-c) Subpart EEEEE

Summary Page for Scrap Handling & Drying

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission Point #	Description	Pollutant	Emission limit	Regulation
FUG	Scrap Handling & Drying	PM	N/A	N/A
FUG	Scrap Handling & Drying	PM	N/A	N/A
FUG	Scrap Handling & Drying	Opacity	N/A	N/A

Provisos for Scrap Handling & Drying

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-1603 "Major Source Operating Permits."	Rule 335-3-1603
2. This source is subject to the applicable requirements of 40 CFR Part 63 Subpart EEEEE, "National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries".	40 CFR Part 63 Subpart EEEEE
Emission Standards	_
1. This Source is subject to no additional specific requirements other than those listed in the General Permit Provisos.	N/A
Compliance and Performance Test Methods and Procedures	
1. This Source is subject to no additional specific requirements other than those listed in the General Permit Provisos.	N/A
Emission Monitoring	
1. The facility must comply with the work practice standards in §63.7700(b) and (c), as applicable	40 CFR §63.7700 (b) & (c) Subpart EEEEE
2. The facility must prepare and operate at all times according to a written plan for the selection and inspection of iron and steel scrap to minimize, to the extent practicable, the amount of organics and HAP metals in the charge materials used by the iron and steel foundry.	40 CFR §63.7700 Subpart EEEEE
Recordkeeping and Reporting Requirements	
 This facility must keep records documenting each visual inspection and results in accordance with 40 CFR §63.7700 (c)(3)(i) work practice standards as applicable. 	40 CFR §63.7700 Subpart EEEEE (c)(3)(i)

APPENDIX

COMPLIANCE ASSURANCE MONITORING (CAM)

CAM Plan for Emission Point 002 with Baghouse (Lost Foam Casting Unit A, Shakeout, and Sand System)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Exhaust Gas Stream Pressure Drop
		T.
Measurement Approach	Visual inspection of the baghouse stack	Baghouse magnehelic gauge
II. Indicator Range	While the unit is operating, an excursion is defined as instantaneous opacity greater than 10 %. Excursions trigger an inspection, corrective action, and a reporting requirement. If an excursion is noted and not corrected within a period of (1) one hour, then a method 9 must be performed within (4) four hours of the observation.	While unit is operating, an excursion is defined as differential pressure less than 2.0 inches of H ₂ O or greater than 8.0 inches of H ₂ O. Excursions trigger an inspection, corrective action, recordkeeping and reporting.
III. Performance Criteria A. Data Representativeness	Measurement is being made at the baghouse exhaust stack.	The magnehelic measures the pressure differential between the inlet and outlet of the baghouse.
B. Verification of Operation Status	N/A	N/A
C. QA/QC Practices and Criteria	The baghouse exhaust stack opacity observer will be Method 9 trained.	The magnehelic gauge will be checked periodically in accordance with existing preventive maintenance procedures. The gauge is checked by removing the two connecting lines from the baghouse to insure it is properly standardized to zero and the pressure indicating needle is moving freely. Any malfunctioning gauge will be replaced immediately.
D. Monitoring Frequency	An observation will be performed daily	An observation will be performed daily
Data Collection Procedures	Observation will be recorded with date, time, results, and name of observer	Observation will be recorded with date, time, results, and name of observer
Averaging Period	Instantaneous	Instantaneous

CAM Plan for Emission Point 003 with Baghouse (Lost Foam Unit B, Shakeout, Sand System, and Wheelabrator Shotblast)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Exhaust Gas Stream
Management Annua all	Vierel impropries of the	Pressure Drop
Measurement Approach	Visual inspection of the baghouse stack	Baghouse magnehelic gauge
II. Indicator Range	While the unit is operating, an excursion is defined as instantaneous opacity greater than 10 %. Excursions trigger an inspection, corrective action, and a reporting requirement. If an excursion is noted and not corrected	While unit is operating, an excursion is defined as differential pressure less than 3 inches of H ₂ O and greater than 12 inches of H ₂ O. Excursions trigger an inspection, corrective action, recordkeeping and reporting.
	within a period of (1) one hour, then a method 9 must be performed within (4) four hours of the observation.	reporting.
III. Performance Criteria	Measurement is being made	The magnehelic measures
A. Data Representativeness	at the baghouse exhaust stack.	the pressure differential between the inlet and outlet of the baghouse.
B. Verification of Operation Status	N/A	N/A
C. QA/QC Practices and Criteria	The baghouse exhaust stack opacity observer will be Method 9 trained.	The magnehelic gauge will be checked periodically in accordance with existing preventive maintenance procedures. The gauge is checked by removing the two connecting lines from the baghouse to insure it is properly standardized to zero and the pressure indicating needle is moving freely. Any malfunctioning gauge will be replaced immediately.
D. Monitoring Frequency	An observation will be performed daily	An observation will be performed daily
Data Collection Procedures	Observation will be recorded with date, time, results, and name of observer	Observation will be recorded with date, time, results, and name of observer
Averaging Period	Instantaneous	Instantaneous

CAM Plan for Emission Point 004 with Baghouse (Continuos Shotblast, Lost Foam Unit C, Shakeout, Sand System, and Pouring and Cooling)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Exhaust Gas Stream
		Pressure Drop
Measurement Approach	Visual inspection of the	Baghouse magnehelic gauge
II Indicator Dance	baghouse stack	W/l-:lit is an anotice and
II. Indicator Range	While the unit is operating, an excursion is defined as instantaneous opacity greater than 10 %. Excursions trigger an inspection, corrective action, and a reporting requirement. If an excursion is noted and not corrected within a period of (1) one hour, then a method 9 must be performed within (4) four	While unit is operating, an excursion is defined as differential pressure is less than 2.0 inches of H ₂ O and greater than 8.0 inches of H ₂ O. Excursions trigger an inspection, corrective action, recordkeeping and reporting.
TITL D. C.	hours of the observation.	m
III. Performance Criteria A. Data Representativeness	Measurement is being made at the baghouse exhaust stack.	The magnehelic measures the pressure differential between the inlet and outlet of the baghouse.
B. Verification of Operation Status	N/A	N/A
C. QA/QC Practices and Criteria	The baghouse exhaust stack opacity observer will be Method 9 trained.	The magnehelic gauge will be checked periodically in accordance with existing preventive maintenance procedures. The gauge is checked by removing the two connecting lines from the baghouse to insure it is properly standardized to zero and the pressure indicating needle is moving freely. Any malfunctioning gauge will be replaced immediately.
D. Monitoring	An observation will be	An observation will be
Frequency	performed daily	performed daily
Data Collection Procedures	Observation will be recorded with date, time, results, and name of observer	Observation will be recorded with date, time, results, and name of observer
Averaging Period	Instantaneous	Instantaneous

CAM Plan for Emission Point 005 (Grinding Stations with Baghouse)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Exhaust Gas Stream Pressure Drop
Measurement Approach	Visual inspection of the baghouse stack	Baghouse magnehelic gauge
II. Indicator Range	While the unit is operating, an excursion is defined as instantaneous opacity greater than 10 %. Excursions trigger an inspection, corrective action, and a reporting requirement. If an excursion is noted and not corrected within a period of (1) one hour, then a method 9 must be performed within (4) four hours of the observation.	While unit is operating, an excursion is defined as differential pressure is less than 2.0 inches of H ₂ O and greater than 9.0 inches of H ₂ O. Excursions trigger an inspection, corrective action, recordkeeping and reporting.
III. Performance Criteria A. Data Representativeness	Measurement is being made at the baghouse exhaust stack.	The magnehelic measures the pressure differential between the inlet and outlet of the baghouse.
B. Verification of Operation Status	N/A	N/A
C. QA/QC Practices and Criteria	The baghouse exhaust stack opacity observer will be Method 9 trained.	The magnehelic gauge will be checked periodically in accordance with existing preventive maintenance procedures. The gauge is checked by removing the two connecting lines from the baghouse to insure it is properly standardized to zero and the pressure indicating needle is moving freely. Any malfunctioning gauge will be replaced immediately.
D. Monitoring Frequency	An observation will be performed daily	An observation will be performed daily
Data Collection Procedures	Observation will be recorded with date, time, results, and name of observer	Observation will be recorded with date, time, results, and name of observer
Averaging Period	Instantaneous	Instantaneous